

## SPECIFICATION AND AMENDMENTS

### IN THE SPECIFICATION:

Replace the paragraph beginning at page 5, line 12 as follows:

A notch 32 present on the head of the probe is provided to send the carrier gas to the centre of the probe to which a measuring device is attached. This permits the use of a gasket on the headset without compromising flow circulation in the channel. The probe is maintained in place on/in the fermenter using a standard port nut pressing on the shoulder 34 which ensures that, when inserted, the probe stays firmly in place. It should be noted that the probe can be sized to match any port structure, including a standard 25 mm port, Tri-clamp, Flange port threaded port etc. An O-ring receptacle 36 is grooved on the body to assure sterility. The locations of the shoulder and O-ring ensure that the maximum length of tubing is located inside of the broth while maintaining sterility of the culture/fermenter. Specifically, when the probe is inserted through the wall hole of the fermenter, the O-ring in the receptacle 36 must seal between the probe body and the wall hole to ensure sterility. It is therefore clearly seen that the shoulder 34 resting on the exterior of the enclosure should ensure that the end of the probe body not be positioned very much inside the fermenter. This results in the maximum length of the tubing being located inside the broth. The head 38 of the probe is made of a standard thread permitting easy installation of the measuring device. For example, in another embodiment, as shown in Figure 8, an industrial head set 40 compatible with the probe head 38 thread type may be adapted in order to place a direct reading sensor such as the methanol sensor Figaro TGS822 or other measuring devices.